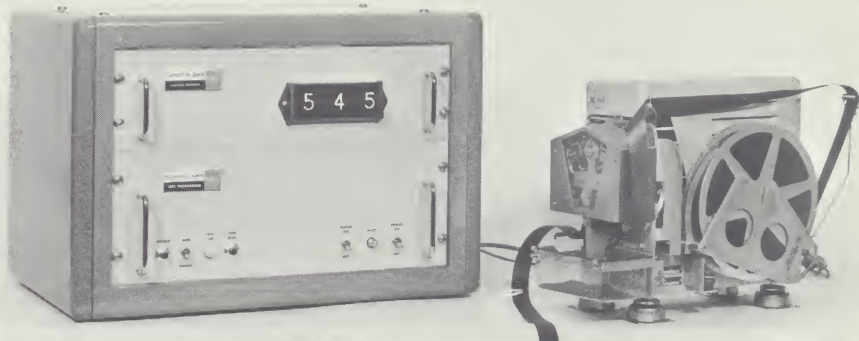


ANALOG / DIGITAL DATA RECORDING PAPER TAPE PUNCH PROGRAMMER



Model T/PI Paper Tape Punch Programmer with
Decimal Readout and Teletype Tape Punch

The Perkin-Elmer Model T/P 1 Paper Tape Punch Programmer is an all solid-state general purpose instrument designed for the high speed programming of information on perforated paper tape. A standard package of Programmer and Teletype Punch provides for the serial punching of Binary Coded Decimal for computer entry. Data is recorded in parallel from commercially available transducers. The Model T/P 1 Programmer is compatible with Perkin-Elmer ONE-BRUSH Encoders and Encoder Systems described in brochure "Digital Monitoring and Control." All interconnecting cables and power supplies are integral to this package.

The Model T/P 1 provides for the programming of digital data from encoders, digital voltmeters, or electronic counters at the maximum punch-rate of 110 characters per second. The digital capacity of the standard Programmer allows punching up to 8 characters in the IBM 8-level code. The capacity is expandable to 16 characters per word. Other codes and tape levels may be supplied for specific applications.

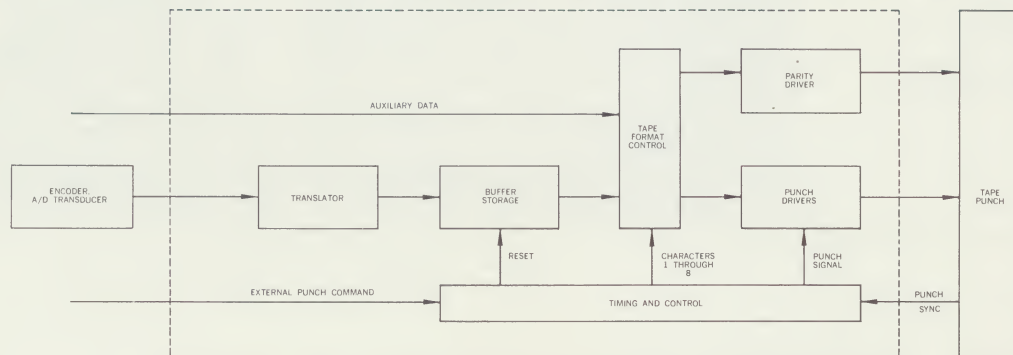
The Perkin-Elmer Punch Paper Tape Programmer is 7 inches high in a standard 19-inch rack mounting panel. An optional wrap-around cover is available for bench-top operation of the Programmer.

The Perkin-Elmer Model T/P 1 Paper Tape Punch Programmer provides:

- IBM 8-level code output with other level optional
- For operation with Teletype Model BRPE 11 Paper Tape Punch (other punches optional)
- Primary and auxiliary data input channels
- Compatibility with standard line of Perkin-Elmer absolute position encoders.
- Storage capability up to 8 characters
- Tape punch speeds up to 110 characters per second
- Manual or externally generated command signal to initiate punch cycle
- Prewired odd or even parity check
- All solid-state electronics
- Single 19 inch chassis for rack or desk top mounting

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PAPER TAPE PUNCH PROGRAMMER



Illustrated in the diagram, the functional blocks of the Perkin-Elmer Paper Tape Punch Programmer include:

- **Translator** This circuit receives the encoder or digital voltmeter input and converts the input to 8421 parallel BCD.
- The **Buffer Storage** accepts the parallel BCD data for storage. This BCD information is transferred serially to the Punch Drivers by the Tape Format Control.
- The **Tape Format Control** Circuit controls the sequence in which any auxiliary parallel auxiliary and primary data is punched. It also generates any necessary special characters such as End of Line.
- The **Timing and Control** circuit generates sequential signals which control the acquisition of the stored primary auxiliary data. It also controls buffer storage reset, and punch signals to the punch drivers. A punch command can be inserted manually via a panel push button, external contact closure, or voltage level.
- The **Parity Driver** provides for even or odd tape perforations for computer parity check.
- The **Punch Drivers** provide power for driving tape punch solenoids. The punch cycle is initiated by a punch control signal from the Timing and Control circuit.

SPECIFICATIONS

Data Input:

Number of Characters: 8 characters standard. Up to 16 on special order.

Code—8421 BCD.

Voltage Levels. -6 V to -18 V for logical 1, 0 V for logical 0.

Input Impedance: 5K nominal.

Connectors: Primary and auxiliary data input:

Auxiliary Input: Special characters may be generated by external contact closures or may be prewired at no premium.

Punch Command Input: -6 to -18 volts to inhibit punch. Zero volts or contact closure initiates punch cycle.

Output Code:

IBM-8 level standard. Other 5 through 8 level codes, available, optionally.

Output Format: Standard word total—8 characters, any combination of the following. As many as 16 characters per word are optionally available.

Channel identification (auxiliary data)—up to 3 characters, standard

Primary Data—up to 6 characters, standard

Special Characters (End of word, etc.)—up to 3, standard

Power Requirements:

Programmer—115 V $\pm 10\%$, 60 cycles, 188 watts.

Teletype Punch, BRPE-11—115 V $\pm 10\%$; 60 Cycles, 213 watts.

DIMENSIONS AND WEIGHT:

1. Programmer:
Width, 19"; height, 7"; depth, 15"; rack mounting standard. Desk mounting optional.
2. Teletype Tape Punch, Model BRPE-11 (Also compatible with Friden Model 2 & Teletype Model 28LARP Tape Punches).



Front panel of the Programmer. The "inhibit" switch stops the data flow to the tape punch without switching off any other functions of the Programmer.

For additional information or other specifications contact our representative or:

ELECTRONIC PRODUCTS DIVISION, THE PERKIN-ELMER CORPORATION

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The information hereon is subject
to change without notice.